International Surface Technologies (IST) is a leading manufacturer and installer of abrasive blast rooms in North America. Our turnkey sandblasting solutions provide a safe and effective sandblasting environment, allowing you to operate independently of outdoor weather conditions, whatever your requirements or the size of the parts to be sandblasted.

All our rooms are equipped with a dust collector adapted to the size of the room, floor hoppers and an abrasive recovery system allowing you to operate in a healthy environment and achieve substantial cost savings in your abrasive consumption (recovery rates of more than 95% can be achieved). Our equipment is compatible with most popular media, such as glass beads, aluminum oxide, GMA Garnet, steel shot, and steel grit.
MSW1200 Pneumatic Floor Recovery System is a very affordable solution with limitations in regards to how long the recovery hoppers can be (max. 10 feet) and that can only handle light media (heavy media like steel grit cannot be vacuumed).

**Key Points**

- 100% adjustable cyclonic separator
- Dust collector DCM230
- Pneumatic recovery system with floor hoppers
- Recovery system capacity
- Light abrasive only

**Recovery Hoppers Layouts Available**

- Corner shut / Shoveling
- Single in ground pneumatic through
MRS200 Pneumatic Floor Recovery System is an efficient and inexpensive solution for recovering used abrasive with minimal effort from the operator. This system is equipped with a high-efficiency impeller dust collector (DCM200), it can handle all major light-to-heavy abrasives available in the market and it offers various floor hoppers layouts.

**Key Points**

- 100% adjustable cyclonic separator
- High efficiency dust collector DCM200
- Pneumatic recovery system with floor hoppers
- Recovery system capacity 2,000 lb/h
- Can handle most abrasives*

*Except steel grit GH-36 or bigger and steel shot S-230.

**Floor Hoppers Layouts Available**

- Corner shut / Shoveling
- Single in ground pneumatic through
- Double in ground pneumatic through
MRS500 Vacuum Recovery System is an inexpensive and easy-to-implement solution that is ideal for blasting parts confined applications such as blasting large tanks and hard-to-spill reservoirs. This system uses no floor hopper which requires less care and maintenance.

**Key Points**

- **100% adjustable cyclonic separator**
- **High efficiency dust collector DCM200 with 20 hp impeller**
- **Vacuum recovery system using handy suction head (gulper)**
- **Recovery system capacity**
- **Can handle most abrasives**

*Except steel grit GH-36 or bigger and steel shot S-230.*
MECHANICAL ABRASIVE BLAST ROOM (SCREW)

HOW IT WORKS

The Mechanical Recovery System uses screw conveyors and a bucket elevator to convey abrasive residues into the recovery system. It is the ideal solution for maximizing the operator performance along with minimizing required care and maintenance of the system components. This system is suitable for large or small rooms, and offers flexibility in terms of recovery speed and floor layouts.

Key points:
- 100% adjustable abrasive air wash
- Screw conveyor recovery system
- Bucket elevator
- Recovery system capacity
- Can handle all types of abrasives

Choice of floor hoppers:
- Corner shut / Shoveling
- With simple screw
- “U”-shaped
- “H”-shaped
- “T”-shaped
- “L”-shaped
- Complete single floor
- Full double floor
MECHANICAL LOADING RECOVERY SYSTEM

HOW IT WORKS

The mechanical loading recovery system is the ideal solution for extremely large abrasive blast rooms with limited budgets or to maximize productivity in facilities where excavation is not allowed. Abrasive residues must be loaded mechanically in a discharge hopper in order to be recovered by the system. It is a high-efficiency system that is also inexpensive to implement and to maintain since it has only few mechanical components.

KEY POINTS

- 100% adjustable abrasive air wash
- Bucket elevator
- Recovery system capacity: 3,300 lb/h
- Can handle all types of abrasives
- Discharge hopper integrated to the recovery system
MEDIA RECOVERY SYSTEM

All our abrasive blast rooms are delivered with a recovery system. Following the blasting process, the residual abrasives accumulated can be vacuumed to the system (MRS500), and manually or mechanically swept or shoveled into the recover pit. Collected used abrasive is conveyed to an adjustable abrasive separator to be cleaned and recycled. Reusable abrasive is then returned to the pressure vessel to be used again, while dust and fine particles are evacuated to the filtration system.

AIR WASH (MECHANICAL)

CYCLONIC SEPARATOR (PNEUMATIC)

SELECTION OF FLOOR HOPPERS CONFIGURATIONS

The recovery system is determined by the type of abrasive used (screw conveyor versus vacuum recovery) and your needs in terms of production and budget. Complete floor hoppers are more expensive, but provide an automatic and continuous recycling of the abrasive without the need to sweep manually. Partial floor hoppers and corners require the operator to sweep the abrasive into the floor hopper. If lift trucks are required in the room, a grating that can withstand very heavy loads must be provided accordingly.

<table>
<thead>
<tr>
<th>INSTALLATION SORT</th>
<th>PROS</th>
<th>CONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOPPERS INTEGRATED TO THE FLOOR</td>
<td>Easy and fast room cleaning by simply sweeping the abrasive into the recovery pit</td>
<td>Excavation is required</td>
</tr>
<tr>
<td>HOPPERS ABOVE GROUND</td>
<td>No excavation required</td>
<td>Abrasives need to be manually shoveled into the recovery pit</td>
</tr>
<tr>
<td>FULL FLOOR</td>
<td>Automatic and continuous recycling of abrasive, without the need to sweep or shovel</td>
<td>More expensive to implement and maintain</td>
</tr>
<tr>
<td>PARTIAL FLOOR</td>
<td>Less expensive to implement and maintain</td>
<td>Floor hoppers need to be loaded manually by the operator</td>
</tr>
<tr>
<td>MECHANICAL LOADING</td>
<td>Less expensive to implement and maintain</td>
<td>Hopper needs to be loaded mechanically with a loader</td>
</tr>
</tbody>
</table>
SECURITY EQUIPMENT

IST provides a 4-stage filtration system to provide breathable air to the operator’s hood, eliminating air contaminants such as oil vapors, hydrogen gases, rust and other potentially hazardous contaminants to provide pure compressed air of respirable quality.

This system is equipped with an air supply detector and a carbon monoxide detector which continuously monitors and samples the air supplied in accordance with OSHA standards.

4-STAGE AIR BREATHING SYSTEM  BREATHEABLE AIR HOOD  SANDBLASTING SUITS  BLAST LIGHTS

3-AXIS BLASTING ELEVATION SYSTEM

BL lifts can replace ladders for working in elevation and provide increased safety and productivity.

**Key Points:**
- Customizable raised-platform heights up to 20 feet
- Operator platform capacity 500 lb
- Pneumatic/hydraulic power unit
- Operator controls on front rail of platform
- Requires a clean, dry air supply of 80 scfm @ 100 psi with dew point @ 40° F
- Travel Speeds: X-Axis up to 40 fpm, Y-Axis and Z-Axis up to 15 fpm
- 1 and 2 axis models available
- Extended reach model available

ROLL-UP DOOR SYSTEM

Durable roll-up rubber doors designed to withstand harsh environment and requiring minimal maintenance.

CONTROL PANEL

Main control panel with HMI and emergency stop button

HMI TOUCH PANEL

(Human Machine Interface)
**CHOICE OF PRESSURE VESSELS**

We offer different options and configurations of pressure vessels to accommodate your needs and maximize your productivity.

**Specifications**

<table>
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<tr>
<th></th>
<th>PPB 646</th>
<th>PPB 1046</th>
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<tbody>
<tr>
<td>Loading capacity (A.S.M.E.)</td>
<td>6.5 cu.ft.</td>
<td>10 cu.ft.</td>
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<tr>
<td>Tank diameter</td>
<td>24”</td>
<td>24”</td>
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<tr>
<td>Media loading (abrasive)</td>
<td>600 lb.</td>
<td>1,000 lb.</td>
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<tr>
<td>Length x height x width</td>
<td>32” x 50” x 35”</td>
<td>32” x 66” x 35”</td>
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<tr>
<td>Weight</td>
<td>350 lb.</td>
<td>575 lb.</td>
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<td>Number of operators</td>
<td>1 or 2</td>
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**Configuration Options**

<table>
<thead>
<tr>
<th>Pressure Hold System</th>
<th>Pressure Release System</th>
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</thead>
<tbody>
<tr>
<td>✓ No depressurization when blasting operations stop</td>
<td>✓ Pressure vessel automatically depressurizes when blasting operation stop</td>
</tr>
<tr>
<td>✓ Reduces air consumption</td>
<td>✓ Automatic filling of the pressure vessel, without any intervention</td>
</tr>
<tr>
<td>✓ Convenient for frequent start/stop operations</td>
<td>✓ Less wear-and-tear for the abrasive metering valve</td>
</tr>
<tr>
<td>✓ Even abrasive flow when starting operations</td>
<td>✓ Simplified and cheaper maintenance</td>
</tr>
</tbody>
</table>

**Double Control System**

✓ Combined system offers the advantages of both configurations without the disadvantages.

**UPGRADE KIT**

**UPGRADE TO MAXBLAST FOR MORE POWER AND BLASTING SURFACE**

Maxblast upgrade kit includes an automatic air valve and fitting that allows you to install a 1½” blast hose which increases air pressure at the nozzle, reduces pressure losses and increases operator productivity.

**Benefits of Maxblast**

- Reduction of pressure losses from 24% to 27%
- Increased in productivity (blasting time) from 36% to 40%

**DEPRESS SWITCH**

Allows the operator to fill the pressure vessel without leaving the abrasive blast rooms

**LED LIGHTING**

High efficiency LED lighting system

**RUBBERIZED WALL PANELS**

Tightly sealed rubberized wall panels protecting the inside of the abrasive blast rooms
### Air & Abrasive Consumption

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<th>Opening</th>
<th>psi¹</th>
<th>30</th>
<th>40</th>
<th>50</th>
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<th>70</th>
<th>80</th>
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<tr>
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<td>10</td>
<td>11</td>
<td>13</td>
<td>15</td>
<td>17</td>
<td>19</td>
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<tr>
<td>lb/h³</td>
<td>55</td>
<td>69</td>
<td>84</td>
<td>97</td>
<td>110</td>
<td>127</td>
<td>140</td>
<td>154</td>
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<tr>
<td>3/16”</td>
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<tr>
<td>lb/h³</td>
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<td>160</td>
<td>170</td>
<td>192</td>
<td>220</td>
<td>243</td>
<td>268</td>
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<tr>
<td>lb/h³</td>
<td>219</td>
<td>276</td>
<td>302</td>
<td>351</td>
<td>398</td>
<td>460</td>
<td>504</td>
<td>556</td>
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<td>lb/h³</td>
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<td>lb/h³</td>
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<td>710</td>
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<td>lb/h³</td>
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<td>lb/h³</td>
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<td>1875</td>
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<td>2422</td>
<td>2690</td>
<td>2973</td>
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### Recoverable Blasting Media

#### Spherical Shaped Media
- Ceramic Beads
- Glass Beads
- Stainless Shot
- Steel Shot

#### Angular Shaped Media
- Aluminium Oxide
- Ceramic Grit
- Crushed Glass
- Garnet
- Plastic Media
- Silicon Carbide
- Stainless Grit
- Steel Grit
- Walnut Shells

### Media Guide

<table>
<thead>
<tr>
<th>Glass Beads</th>
<th>Ceramic Grit</th>
<th>Stainless Cut Wire</th>
<th>Steel Shot</th>
<th>Steel Grit</th>
<th>Aluminium Oxide</th>
<th>Silicon Carbide</th>
<th>Garnet</th>
<th>Crushed Glass</th>
<th>Plastic Media</th>
<th>Walnut Shells</th>
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<td>MED. LOW</td>
<td>MED. LOW</td>
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<td>5.5</td>
<td>7 (57-63)</td>
<td>6-7.5 (35-55)</td>
<td>6-7.5 (35-55)</td>
<td>8-9 (40-66)</td>
<td>8-9</td>
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<td>150</td>
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<td>36-220</td>
<td>16-325</td>
<td>30-400</td>
<td>12-80</td>
<td>MANY</td>
</tr>
</tbody>
</table>

*Above information is intended as a general reference guide.
BLAST ROOM DUST COLLECTORS

IST offers a wide selection of fully equipped blast room dust collectors with up to 50,000 cfm in capacity.

Our vertical design and pulsation system provide a more efficient means to remove dust from cartridges, eliminating uneven dust accumulation associated with horizontally mounted cartridges.

Simple and safe cartridge replacement system requiring no tools.

Automatic Pulse Cartridge Cleaner. A light illuminates to indicate when the cartridges must be replaced.

DCM 3,000 to 50,000

Optional screw conveyor to collect dust inside the building

DIFFERENT TYPES OF DUST EXTRACTION DUCTINGS
The advantages of an ISTblast abrasive blast room

- Significant savings as abrasives can be collected, sorted and recycled
- Increased productivity since you can sand indoors 24/7, regardless of outdoor weather

Industrial applications

- General manufacturing
- Industrial equipment
- Foundry & Forging
- Aerospace & Aviation
- Rail & Transport
- Shipyards
- Automotive
- Petrol

INNOVATION AND LEADING TECHNOLOGY

Founded in 1978, International Surface Technologies (IST) is a North American leader in sanding chambers, blasting cabinets and portable sandblasting equipment. The company’s success lies in its unwavering commitment to technical excellence, world-class manufacturing and unmatched customer service.

Working closely with specialized distributors and abrasive users, IST offers systems, products and technologies that set the quality standard for a wide range of surface treatment applications. IST supplies equipment for a wide range of surface preparation industries to accommodate paint applications or to reinforce surface profiles to resist wear.

The continued investment in research and development of IST in the field of industrial sandblasting will continue to provide innovative solutions to a diversified global market. Call today for product information or to request a demonstration.